COYNE CHEMICAL
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Hydrochloric Acid 20 BE

Recommended use of the chemical and restrictions on use:

Supplier:

Coyne Chemical
3015 State Road
Croydon, PA 19021
Telephone: +1 (215) 785-3000

Emergency Phone:

For Chemical Emergency
Spill, Leak, Fire, or Accident
Call **CHEMTREC** Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

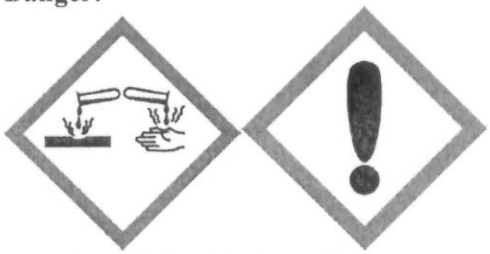
SDS Date of Preparation: 8/29/18

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical	Health	Environment
Corrosive to Metals Category 1	Skin Corrosion Category 1B Eye Damage Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 (Respiratory Irritation)	Not hazardous

GHS Label Elements:
Danger!



Contains: Hydrochloric Acid

Statements of Hazard

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary Phrases

P234 Keep only in original container.
P260 Do not breathe mist, vapors, or spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye

protections and face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.
P310 Immediately call a POISON CENTER or doctor.
P363 Wash contaminated clothing before reuse.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor.
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor.
P390 Absorb spillage to prevent material-damage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in a corrosive resistant container with a resistant inner liner.
P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Water	7732-18-5	63-74%
Hydrochloric Acid	7647-01-0	26-37%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Immediately flush victim's eyes with large quantities of water for at least 30 minutes, while holding the eyelids apart. Get immediate medical attention.
Skin: Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least 20 minutes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes).
Ingestion: Do NOT induce vomiting. If conscious, give large quantities of water. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Most important Symptoms: Causes severe irritation and burns to eyes and skin. Inhalation of mists may cause mucous membrane and respiratory irritation. May be harmful or fatal if swallowed. Prolonged inhalation exposure to mists or fumes may cause lung damage.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for all routes of exposure.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.
Specific hazards arising from the chemical: Non-combustible, substance itself does not burn but may decompose upon heating to produce hazardous combustion products. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard. Hydrochloric acid may react with metals to liberate flammable hydrogen gas. Thermal decomposition may yield toxic fumes of hydrogen chloride.
Special Protective Equipment and Precautions for Fire-Fighting Instructions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain water used in firefighting from entering sewers or natural waterways.
Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard. Avoid releases to the environment.

Methods and Materials for Containment and Cleaning Up: Dike and contain liquid. Carefully neutralize with soda ash. Exercise caution during neutralization since large amounts of heat may be generated. Collect neutralized liquid with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Do not breathe mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Always add acid to water- not water to acid. Adding water to acid generates heat and will cause dangerous boiling and splashing.

Do not reuse containers. Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage. Keep in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Hydrochloric Acid	2 ppm CeilingACGIH TLV 5 ppm Ceiling OSHA PEL

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.
Respiratory Protection: In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants

should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.
Skin Protection: Wear impervious gloves such as rubber or neoprene to avoid skin contact.
Eye Protection: Safety goggles and face shield recommended.
Other: Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Clear, colorless liquid with pungent odor.

Physical State: Liquid	**Odor Threshold:** 0.2-10 ppm (hydrogen chloride)
Vapor Density: Not determined	**Initial Boiling Point/Range:** 230°F (95°C)
Solubility In Water: Soluble	**Vapor Pressure:** Not determined
Relative Density: 1.13-1.19	**Evaporation Rate:** Not determined
Melting/Freezing Point: -63 to -12°F (-52.78 to 24.44°C)	**pH:** Not available
VOC Content: Not determined	**Octanol/Water Coefficient:** Not determined
Solubility: Not determined	**Decomposition Temperature:** Not determined
Viscosity: Not determined	**Flammability (solid, gas):** Not applicable
Flashpoint: None	**Autoignition Temperature:** None
Flammable Limits: LEL: Not applicable	**UEL:** Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: Hydrochloric acid may react with metals to liberate flammable hydrogen gas. Hydrochloric acid may also corrode some metals.
Conditions to Avoid: None known.
Incompatible Materials: Bases, organic material, metals, carbides, cyanides, chlorates, nitrates, picrates, permanganate, peroxides, zinc iodide, azides, perchlorates and phosphorus.
Hazardous Decomposition Products: Thermal decomposition may yield toxic fumes of hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:
Ingestion: Ingestion may cause severe mucous membrane and gastrointestinal irritation with chemical burns. May cause nausea, vomiting, diarrhea, abdominal pain, chest pain, shortness of breath, profuse sweating, low blood pressure, tachycardia (rapid heartbeat), pulmonary edema, seizures, shock and death.
Inhalation: Inhalation of mists may cause irritation of the nose throat and upper respiratory tract. High concentrations may cause lung damage (pulmonary edema).
Eye: May cause severe irritation or burns with pain and tearing. Corneal damage with permanent blindness is possible.
Skin: May cause severe irritation or burns.
Sensitization: This material is not known to cause sensitization.
Chronic: Prolonged exposure may cause permanent damage to eye, skin, lungs, and teeth.
Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Germ Cell Mutagenicity: None currently known.
Reproductive Toxicity: None currently known.

Numerical Measures of Toxicity:
Hydrochloric Acid: Inhalation rat LC50: 40989 ppm/5min

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Hydrochloric Acid: Lepomis macrochirus LC50: 30.9 mg/L/96hr

This product may be hazardous for the environment due to its low pH. Releases to the environment should be avoided.
Persistence and Degradability: No data available.
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:
Proper Shipping Name: Hydrochloric acid solution
UN Number: UN1789
Hazard Class/Packing Group: 8, II
Labels Required: Corrosive
Note: This product has an RQ of 13,513 lbs (Hydrochloric Acid RQ 5,000 lbs)

15. REGULATORY INFORMATION

CERCLA: Releases above the reportable quantity of 13,513 lbs (based on the RQ of 5,000 lbs for Hydrochloric Acid present at 26-37%) must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Refer to Section 2 for OSHA Hazard Classification.

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

CANADA:
This product has been classified under the CPR and this SDS discloses information elements required by the CPR.
Canadian CEPA: All the components of this product are listed on the Canadian DSL.

16. OTHER INFORMATION

NFPA Rating: Health = 3 Flammability = 0 Instability = 0
HMIS Rating: Health = 3 Flammability = 0 Physical Hazard = 0

Date of Current Revision: 8/29/18
Revision Summary: Revised Sections 11, 15.
Date of Previous Revision: 11/2/15

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Coyne Chemical shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.